



MGAC Pool Heater Replacement Summary

- The Large/Competition Pool heating system was put into operation in 2009 as a 2-Heater Load-Balancing semi-redundant system with a 10-Year predicted useful life
- #1 of the 2 Large Pool Heaters no longer functions and cannot be repaired as of Jan 2020
- #2 of the 2 Large Pool Heaters is already past its manufacturer’s recommended useful life
- While the 2nd Large Pool Heater has been recently repaired/serviced in Dec 2019 and is functional, this 2nd Heater is not able to operate as the sole heater for the Large/Competition Pool and was being taxed/overworked in Jan/Feb after the 1st Heater failed beyond repair. The 2nd Heater is still functional mainly because of its reduced workload since the pool has been shut-down in Mid-March.
- It is not realistic to expect the 2nd Heater to last for more than a few months once pressed back into full-time service, and even if it did last that long, it will not last deep into the Winter Season where the heaters work much harder to maintain the pool at its practice and competition level temperature.
- The Large/Competition Pool Heating System **requires** replacement in order to successfully heat/operate the pool much longer
- If the 2nd Heater fails without a replacement solution in place, or on the verge of installation, it will result in a 6-10 week shut-down of the Large Pool, which would stop all PCHS PE Dept. academic use, all PCHS Swim & Water Polo Team use, and stop all permit use. Permits generate about \$40-\$45,000 a Month.
- The Small/Instructional Pool Heater is operating but also nearing its useful end of life and will need to be replaced soon, but the Small/Instructional Pool is less critical and easier to get replacement parts/heaters when that time comes.

Large/Competition Pool Replacement Heater Options Explored:

	Replace Old Models (Copper-fin) <i>*See attached</i>	New Modern Option *** (Aquis) <i>*See attached</i>	New Modern Configuration for all 3 Pools (Aquis)
Cost	\$100,000 Installation, Shipping, Tax, etc. all included	\$170,000 Installation, Shipping, Tax, etc. all included	\$350,000 Installation, Shipping, Tax, etc. all included
Pros	<ul style="list-style-type: none"> ▪ New Heaters ▪ New Warranty ▪ Less Up-Front Costs 	<ul style="list-style-type: none"> ▪ More Heaters/Warranty ▪ More Efficient ▪ Much more savings over time ▪ LAUSD Compliant & Recommended 	<ul style="list-style-type: none"> ▪ More Heaters/Warranty ▪ More Efficient ▪ Entirely new system/technology for all 3 pools ▪ LAUSD Compliant & Recommend if Affordable
Cons	<ul style="list-style-type: none"> ▪ Less Efficient ▪ Higher cost over time 	<ul style="list-style-type: none"> ▪ Costs more to install, with higher up-front costs (but lower costs in the long run) 	<ul style="list-style-type: none"> ▪ Great Solution, but complete retrofit which has much higher installation costs, as well as high equipment costs too
Other	Over 15 years, this system will incur significant costs to maintain	There is a large projected savings over 15 years (see attached)	<ul style="list-style-type: none"> ▪ Replacement for all 3 pools ▪ A long term solution

*** Recommended option by MGAC Director, Director of Operations and Budget & Finance Committee